

Study Guide - Grade 9 Science PAT

This is a list of some things you'll want to be able to do for the Science PAT. This is not a complete list of everything that will be on the exam.

Unit A: Biological Diversity

Students must be able to:

- Recall all their definitions
- Identify and describe variations among and within species
- Describe aspects of a species' niche
- Explain how an organism is adapted to life in its ecosystem
- Provide examples of symbiotic relationships
- Explain how one species' survival is linked to other species
- Clarify given symbiotic relationships as mutualism, commensalism, or parasitism
- Explain how species variation helps with species survival
- Distinguish between sexual and asexual reproduction
- Describe mechanisms of asexual production such as binary fission, budding, and spore production
- Describe mechanisms of sexual production
- Give examples of organisms that show both sexual and asexual production
- Describe the formation of a zygote and embryo in plant and animal production
- List examples of variation of characteristics within a species, including both discrete and continuous variation
- Identify examples of transmitted characteristics to offspring that are the same as one or both parents, intermediate between parents, or different from both parents
- Differentiate between heritable and non-heritable characteristics
- Identify examples of dominant vs recessive characteristics
- Generally explain the role and relationship of chromosomes, genes, and DNA
- Identify differences in mitosis vs meiosis
- List advantages and disadvantages of sexual and asexual production
- Explain the difference between natural and artificial selection
- Simply describe a few genetic technologies
- Describe the relative amounts of different species types on Earth and in different environmental regions
- Explain how environmental factors and changes can result in changing biodiversity, extinction, and extirpation
- Evaluate how successful specific local or global strategies are at minimizing loss of species diversity
- Analyze the use of biotechnology in environmental, agricultural, or forest management for potential impacts and issues
- Analyze graphs related to population abundance and change over time

Unit B: Matter and Chemical Change

Students must be able to:

- Recall all their definitions
- Investigate and describe physical and chemical properties of materials (melting and boiling point, solubility, conductivity, hardness, lustre, etc.)
- Clarify a given material as: pure substance, solution, mechanical mixture, metal, or non-metal
- Evaluate a change in material properties to decide if a chemical reaction (chemical change) has taken place

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Michael Rajnik



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Whispering the Secrets of Language: An Emotional Quest through **Grade 9 Science Study Guide Pat**

In a digitally-driven earth wherever displays reign supreme and quick connection drowns out the subtleties of language, the profound strategies and mental subtleties concealed within phrases often go unheard. However, nestled within the pages of **Grade 9 Science Study Guide Pat** a interesting fictional treasure pulsing with fresh emotions, lies a fantastic journey waiting to be undertaken. Published by an experienced wordsmith, that marvelous opus encourages readers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the cloth of every word. Within the psychological depths with this touching evaluation, we can embark upon a sincere exploration of the book is key styles, dissect their charming writing model, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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